

ACACCATTG TCTTCATGTA ACCCCATTAG CTATACCTC TAGTGCAAGG AAACCATAAGG
 10 20 30 40 50 60
 GCCTAGGTCA CACCATGAGG CTGCNCTTAC AAGTTATGCA AAAACTATGG ACTTGGGAGA
 70 80 90 100 110 120
 CCTGTGCGTA ACAACATCAC ACNCCAAATT TAACCAGCTC TCCCCATAAC AGCACGCTCA
 130 140 150 160 170 180
 TGTGTTACTG AGGAAATGCC TGTGGATTGG AGTGTGTTCT GTGTGCAGGA GGCTGGTCCA
 190 200 210 220 230 240
 GGTTTCACCT CTGCAGGACA CTGGACGTTT CCCAAAACCA GCAGACTTTC CCCACGTGCA
 250 260 270 280 290 300
 CACACACCCC TTCTCATTTC GCCTCTACAT CCATATCCAC TGGGCCCTTC AGGCACCTAC
 310 320 330 340 350 360
 TAATGCCCTA GAACCTAAAA CCATCATCTG GGGCCCAGTT CCCTGAATGG CCCTAACCTC
 370 380 390 400 410 420
 TTCCTCTGCT GGAATGAGTC CAGTCCCCAC TTCCCTCCAAC GGTGAAATTG CTGGGCTGCT
 430 440 450 460 470 480
 ACAGATCAGG AACTCACTGC TTCCCTCATAG GGGCAGCCGA CTTCACTGCT CTGCAACAGC
 490 500 510 520 530 540
 GACCACCCCT AGCGAGGCTT GAGATGCCTC TTGCCTCCTT AAGACTGAGG GAGACGCTTC
 550 560 570 580 590 600
 AGCTCTCACT CCACTGCCCTT AAGTCCTCCA CAGCGCGGTG CCTGCTGCCT TCACACAGAG
 610 620 630 640 650 660
 CTGCAGGGGN AGGTCCGTG TATCCGGCCT GCTGGACCA CGCTGTGCAC AACCCCTCCCA
 670 680 690 700 710 720
 TGGCAACAGT GGCTGCCCGG CCTGCACACT GGGCTTGGCA ACCTCGCTGT AGGTATTTAT
 730 740 750 760 770 780
 TCCCTCAGGA GTGACTGCAT TCTTTTCCCA TTTCCAGAAA ACTGATGCCA TTTACCTCAC
 790 800 810 820 830 840
 TATGAGGAGG AGGAGGAGGA GGAGGGTGGA GAGTGGTACA TTTTAAAATG TGCACTATTG
 850 860 870 880 890 900
 TCCCTAGGAC TCCCCCTCAA ATAACCCAGG AGGGACCATA CCAGCTCATT CCTGTGTATC
 910 920 930 940 950 960
 CCAAGCATAN GAGTAATCAT CCCACTCATG CTGAGTGTAT GGTGGCCATT AAGCCTGCC
 970 980 990 1000 1010 1020

Figure 1

400430-101004

```

TGAACGGCT TTAGAACAAAG GTGTTTGAGC ACACAGCAC C TGTGCTGC CACCTTGGCC
 1030      1040      1050      1060      1070      1080

CCCTCCCTTG TGAGACCTCT GAGACACATT NAGGTCTCAC CTAAAATCT CAGGATTTCT
 1090      1100      1110      1120      1130      1140
AGGCCAAN CGGTCTAAA AAATTGTTCA GTCTGAACTC TCTAAGGTCA AGAGAAGAGG
 1150      1160      1170      1180      1190      1200

TGGTTGCTCC CTCTAAGAAA CCACATGTTG CATGTACATC CTTAATTCCG GAAAGTCAA
 1210      1220      1230      1240      1250      1260

CAAACCTGCC CTGCTTAGCA ACACAAGCCG AGGTGGTACT CCTCTCACCC GGGCATTCTC
 1270      1280      1290      1300      1310      1320

CAACACACCT GTTTGTCCAA ACAGCTTGA TTTGTTTTA TAGTTGGACC CCAGGTTCCC
 1330      1340      1350      1360      1370      1380

AGGAGGCTGG TTCAGGCCAT ATTCAAATC CTCATCTGTG TGTGAGTGGC ATTCTTAGCC
 1390      1400      1410      1420      1430      1440

TAGCCTCCTT ACAGGGTGG A TACTATGATA CACAGCCAGG CTGTCCCAGT GGCTTTCAAT
 1450      1460      1470      1480      1490      1500

ATTCTTTGG TCCAGATAGT TCAGCCTCAG CACCAGTGTAG GCATCACAG GGTCAATTGT
 1510      1520      1530      1540      1550      1560

CTTAGGAGTC ATGGAGAATT CATA GTGGT AGCTACCTGG GCCTGCCAG GGCTGACCAT
 1570      1580      1590      1600      1610      1620

AGACAAGGCA TCCCTCTGTG AACTCCTATT TTAATGCCAG CTTCCAACA AATTCTCAA
 1630      1640      1650      1660      1670      1680
          CAAT box
          ----

CTGCTCTTAC CAGCAGGTAT TTAAACTACT CAATAGAAAG TAACCTGAA AATTAGGACA
 1690      1700      1710      1720      1730      1740
          TATA box
          ----

CCTGTTCCCA AAAGACCCCTT AAATAGGGGA AGTCCTTTCN CTGCTTGTGC ACAGCTGCTG
 1750      1760      1770      1780      1790      1800

| ->mRNA -----
ATGTGGCAAC ATGAGGCCCTG GGACAGGGGA CTGTCCTCTG CCCACTCTGG TAGCCTCACG
 1810      1820      1830      1840      1850      1860

Spsite
-- exon 1 ---->#####  

TAGCTTAACA ATCTGTCACTT AATACAATAC AAAACTAAAA CTTTCATACT GCGGTTCCAC
 1870      1880      1890      1900      1910      1920
          >
CCAGGAAGCT GTGTTCCCAA TCTGACCCGT GATTATGGGG CCACCTCAGA GGGNACCCAG
 1930      1940      1950      1960      1970      1980

```

Figure 1 (continued)

TGAGGGAAATA TTTTGCCATC TGGGACTGTT GGTTGCTGGG GGCAGTGGCT ATGAGCTCAG
 1990 2000 2010 2020 2030 2040
 TTAATAAAACT CAAGCAGTTT CCTTCCAAAC ACACATGTCC TACTTAACGT GTCCAACAGA
 2050 2060 2070 2080 2090 2100

 GATGATCATA CTCATANGCT GCTAAAACAT TANTTTTATT TTGAGAAAAG TCTATTGATG
 2110 2120 2130 2140 2150 2160
 ----- Alu insert -----
 TTCTTGGCCC ATGGAGTTT CATTTNATTA NTTTATTAT TTTGCAGAGA TGGAGTCTCA
 2170 2180 2190 2200 2210 2220

 CTATGTTGCT CAAGCTGGTC TCCAACTCCT GGGCTCAAGC GATCTTCCTA CTTTGGCCTT
 2230 2240 2250 2260 2270 2280

 TGAAAGCGCT GAGATTGCCT GTGTGAGCCA TCATGGGGC TCACGGCCC ACTGATTAAT
 2290 2300 2310 2320 2330 2340
 CAGATTAATT GTTTTTGCT ATTGAANTTG TTTGACTTCC TTGTATATTG GGATATTTAC
 2350 2360 2370 2380 2390 2400
 CCATTCTAAC ACGTAGGGTT TGCAAATATT TTCTCTCATG TTCTGTGTTG CCTTTTCACT
 2410 2420 2430 2440 2450 2460
 CAGTTGATGG TTTCTTGCG TGTGCAGGTG CTTTAGTGTG CAACGCAGCC CCGCTTGTCT
 2470 2480 2490 2500 2510 2520
 ATTTTCCATT TTATTGCGTG TCCCTTGAT GTCATAGCCA AGAAATAATT GCCCAGATTA
 2530 2540 2550 2560 2570 2580
 ATGTCAAAAA GCTTTATCCC TATATATTCT TCTAGTAGTT TATGGTTCA GATCTTATGT
 2590 2600 2610 2620 2630 2640
 TTAGGTCTTC AATCCATTGA GTTGATTTT GTATGTGGTA TAAGAAAAAA GACCACATGT
 2650 2660 2670 2680 2690 2700
 ATACATATCT CAAATTCTAA GGTAGTATAT ATTAGACACA TACAATGTGT CTATTTACAC
 2710 2720 2730 2740 2750 2760
 ACATTGAGCT GAAAATAATA AACATATTTT TATCTTCAA TCAACTCTAT CTCTATCTCA
 2770 2780 2790 2800 2810 2820
 CTGAACCTGT TTCACCTATA GCCTGATGAG GTTGCTGTCC TCTCTACCCC AGCTCCTATA
 2830 2840 2850 2860 2870 2880
 GGAGACTGCT CATCCCCCTAA CCTCAAAAAC CCCTTCATGA GGGTGATAAT GCCCTTGAAT
 2890 2900 2910 2920 2930 2940

10045180 - 101804

Figure 1 (continued)

CCTGCAATGA ATTAGTTCTC TACTACAGTG GAATTCAAGGT CTGTTATGAG GGTCTGGATC
 2950 2960 2970 2980 2990 3000

TCTGAAGAGA AGAGCTCTCA TTTTCAGAAA ATAAGCAGGA TTTATTCCCT GAAATTACTG
 3010 3020 3030 3040 3050 3060

AATTAAATCA CTGTTTCGAT TACTTTTGC AATATTAAAA GTAAATATTT AAACAGGTAA
 3070 3080 3090 3100 3110 3120

AAACAGAAAAT AATGGTAGGG TCCTTATCAT CACCGTGAAT TCCAAGCTAG CATAGACACT
 3130 3140 3150 3160 3170 3180

AACACCTAGAG ATTACACACTA GAATGAAAGC TGGGAGAGCA GAGGAGTCTC AGAAGGATGT
 3190 3200 3210 3220 3230 3240

GGAGGCCAAT GGACACCTGC AACCTCTCCA ACGAAATGCC TACCTCCTCT CACTGCAGCA
 3250 3260 3270 3280 3290 3300

TCCATCTCTG AGCCTTCTCG CAGCAGAGCT ATAAATTCAG CCTGGCTCCT CCGTTCCCAC
 3310 3320 3330 3340 3350 3360

Spsite CDS start
 #####-----****-----
 ACATCCACTC CTGCTCTCCC TCCTCTCCTC CAGGTGACTA CAGTTATGAG GACCCTCAC
 3370 3380 3390 3400 3410 3420

----- Exon 2 -----

CTCCTCTCTG CCTTTCTCCT GGTGGCCCTT CAGGCCTGGG CAGAGCCGCT CCAGGCAAGA
 3430 3440 3450 3460 3470 3480

GCTCATGAGA TGCCAGCCC GAAGCAGCCT CCAGCAGATG ACCAGGATGT GGTCAATTAC
 3490 3500 3510 3520 3530 3540

Spsite
 ----->#### ####
 TTTTCAGGAG ATGACAGCTG CTCTCTTCAG GTTCCAGGTG AGAGATGCCA GCATGCAGAG
 3550 3560 3570 3580 3590 3600

CTACAGACTA GACAGAAGGA CAGGAGACAG GCTCTGGAAT TGGATCTCAG TGGCAGATGT
 3610 3620 3630 3640 3650 3660

CACTTAGGTG GCTATACTTA ACATCTCTGG TCCTGGATT TCTCATATCT AAATGGAATA
 3670 3680 3690 3700 3710 3720

GAGAACCAAA GAAATCTAAG AGATTTTCT TTCTCCAAA ACTTGATTCC AAGATATGAC
 3730 3740 3750 3760 3770 3780

TGTGAAATTTC ACTAGATTAA AGATATAAGG AGATGCTACC TAGTTCCCTC TGGAGCCAGA
 3790 3800 3810 3820 3830 3840

Figure 1 (continued)

2018-09-14 10:41:00

CAAACAAAGCT TAAGTATATA GGAAAATATT TCACCCTGTC TATATAGGAG GTTTTAGAAC
 3850 3860 3870 3880 3890 3900

CTGGAGAGGA GCCTAAGAAT GTGTTCAAGGT GTGTGTGTGA TGGGCAGGAA TGCAGAAAAG
 3910 3920 3930 3940 3950 3960

TGAAGCAAAG GAGAAATGAGT CTCGAATCCT GTGTGACCAAG CACTGCTCTG TGTATTTATT
 3970 3980 3990 4000 4010 4020

CCTATTGACT GAGATTGTTT GTGCTACCGG CTGTAATACA GCCAACATCA CTCATCAGCC
 4030 4040 4050 4060 4070 4080

AACATGTGAC TTCTCCAAGA TTCCCTTTAC CACCCACTGC TGNACCCGT ACTCAGTTTC
 4090 4100 4110 4120 4130 4140

Spsite

###<-----

TGATGCTCTC TCTGGGTCCC CAGGCTCAAC AAAGGGCTTG ATCTGCCATT GCAGAGTACT
 4150 4160 4170 4180 4190 4200

----- Exon 3 -----

ATACTGCATT TTTGGAGAAC ATCTTGGTGG GACCTGCTTC ATCCTTGGTG AACGCTACCC
 4210 4220 4230 4240 4250 4260

CDS stop

****-----

AATCTGCTGC TACTAAGCTT GCAGACTAGA GAAAAAGAGT TCATAATTTT CTTTGAGCAT
 4270 4280 4290 4300 4310 4320

Poly Ad

*****----->

TAAAGGAAT TGTTATTCTT ATACCTGTC CTCGATTTCC TGCCCTCATC CCAAATAAAT
 4330 4340 4350 4360 4370 4380

ACTTGGTAAC ATGATTTCCG GGTTTTTTT TTTTT
 4390 4400 4410

Figure 1(continued)

400-45180-101801

TOP - 084041

	10	20	30	40	50		
DEF4	GGATCCCCATTGTCTTCAGTGTAAACCC-ATTAGTTAAACCGCCTACTGCAAGGAAACCA						
DEFX	ACACCATTGTCTTCAGTGTAAACCC-ATTAGCTATAACCCCTAGTGCAGGAAACCA						
	10	20	30	40	50		
	60	70	80	90	100	110	
DEF4	CAAGGCTTGGATCAGATCATGAGGCTGCCCT-ACAAGTTATGCCAAAAAATATGGACTTG						
DEFX	TAGGGCCTAGGTACACCATGAGGCTGCNCTAACAGTTATGC-AAAAACTATGGACTTG						
	60	70	80	90	100	110	
	120	130	140	150	160	170	
DEF4	GAAGACCTGTCTGTTATAATATCACAC-CCAAATCTAACCGAGCTTGCCAATAACAGCTC						
DEFX	GGAGACCTGTGCGTAACAAACATCACACNCAAATTAAACAGCTCTCCCCATAACAGCAC						
	120	130	140	150	160	170	
	180	190	200	210	220	230	
DEF4	TCTCCTATGTTACTAGGAAAATGCCTATGGATTGGAGTGTGTTCTGTGTGCAGGAGGCTG						
DEFX	GCTCATGTGTTACTGAGGAAAATGCCTGTGATTGGAGTGTGTTCTGTGTGCAGGAGGCTG						
	180	190	200	210	220	230	
	240	250	260	270	280	290	
DEF4	GTCCAGGTTCACTTCTGCAGGACACTGGACATC-CCCACAACCACAGACCTCCCCAC						
DEFX	GTCCAGGTTCACTTCTGCAGGACACTGGACGTTCCAAAACCAGCAGACTTCCCCAC						
	240	250	260	270	280	290	
	300	310	320	330	340	350	
DEF4	GTGCACACACACCCCTCTCATTTGCCTCTACATCCATATCCACTGGGCCCTTCAGGCA						
DEFX	GTGCACACACACCCCTCTCATTTGCCTCTACATCCATATCCACTGGGCCCTTCAGGCA						
	300	310	320	330	340	350	
	360	370	380	390	400	410	
DEF4	CCTACTAATGCCCTAGAACCTAAACCATCATCTGGGGCCAGTCCCAAATAGCCCTA						
DEFX	CCTACTAATGCCCTAGAACCTAAACCATCATCTGGGGCCAGTCCCTGAATGGCCCTA						
	360	370	380	390	400	410	
	420	430	440	450	460	470	
DEF4	ATTTCTCCTCTGCTGGAATGAGTCCAGTGCCCCTTCCCAAAGGTGAAATTGCTGGG						
DEFX	ATCTCTCCTCTGCTGGAATGAGTCCAGTGCCCCTTCCCAAAGGTGAAATTGCTGGG						
	420	430	440	450	460	470	
	480	490	500	510	520	530	
DEF4	CCTGCAACAGATCAGGAACACTGCTTC-TCATAGGGGCAGCCGACTTCACTGCTCTGG						
DEFX	C-TGCTACAGATCAGGAACACTGCTTCTCATAGGGGCAGCCGACTTCACTGCTCTGC						
	480	490	500	510	520	530	

Figure 2

2001-08-15 10:00

	540	550	560	570	580	590
DEF4	AACAGCGACCACCCCTAGCGAGGCTTGAAGATGCCTCTCCCTCCTTAAGACTGAGAGCGC					
DEFX	AACAGCGACCACCCCTAGCGAGGCTTGAAGATGCCTCTGCCTCCTTAAGACTGAGGGAGA					
	540	550	560	570	580	590
	600	610	620	630		
DEF4	CGCT-----GCCCGAGTCCTCCATAGCCCAGTGCCCTGGCTGCCTCA					
DEFX	CGCTTCAGCTCTCACTCCACTGCCAAGTCCTCCACAGCGCGGTGCCTG-CTGCCTCA					
	600	610	620	630	640	650
	640	650	660	670	680	690
DEF4	GCCAGAGCTGCAGGGG-AGGCCCTGAGCACCCAAGTCCTGCTGGACCAGCGCTGTGCACG					
DEFX	CACAGAGCTGCAGGGGNAGGTCTGTGTATCC--GCCCTGCTGGACCAGCGCTGTGCACA					
	660	670	680	690	700	710
	700	710	720	730	740	750
DEF4	GCCCTCCCATGGCGGCAGGGCTGCCTGGACTGCATACTGGGTTAGCAACCTCACTATA					
DEFX	ACCCTCCCATGGCAACAGTGGCTGCCCGGCCCTGCACACTGGCTGGCAACCTCGCTGTA					
	720	730	740	750	760	770
	760	770	780	790	800	810
DEF4	GGTATTCACTCCCTCAGGAACAACACTGCATTCTTCTCATTCCAGAAACCTCATCCCGT					
DEFX	GGTATTATTCCTCAGGAGTGACTGCATTCTTCCATTCCAGAAAACGTGATGCCAT					
	780	790	800	810	820	830
	820	830	840		850	860
DEF4	TTACCTCACTACAAGGAGGAGGATG-----GTGGAGAGTGGTACATTTAAAATGT					
DEFX	TTACCTCACTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTGGTACATTTAAAATGT					
	840	850	860	870	880	890
	870	880	890	900	910	920
DEF4	GCACTAGTCTCCCTGGACTCCCCTCAAATAACCCAGGAGGGACCACACAAGGGAAAGC					
DEFX	GCACTATTCTCCCTAGGACTCCCCCTCAAATAACCCAGGAGGGACCATACCAGCTCATT					
	900	910	920	930	940	950
	930	940	950	960	970	980
DEF4	TTATGCATCCCCCCCACCC-AGTGACCATCTTCTTAACCTGGGTAGGGAGACTCGTA					
DEFX	CTGTGTATCCCAAGCATANGAGTAATCATCCCACTCATGCTGAGTGTATGGTGGCCATTA					
	960	970	980	990	1000	1010
	990	1000	1010	1020	1030	1040
DEF4	AGCCTACG--GGATTGGTTGGAACAGGGTATTGAGCTCACAAACACAAGGTGATGCAA					
DEFX	AGCCTGCCCTGAACGGCTTAGAACACAAGGTGTTGAGCACACAGCACCG-----					
	1020	1030	1040	1050	1060	

Figure 2 (continued)

10043180-404801

	1050	1060	1070	1080	1090	1100
DEF4	GCTAACACCAATCGCTGCAGTTGGCCACCCTTAAGG-GACTTCTGACAGACATT ::: :::: : :: :::: : :: :::: : :: :::: : :: :::: :					
DEFX	-----TCTTGCTGCACCTTGGCCCCCTCCCTGTGAGACCTCTGAGACACATT 1070 1080 1090 1100 1110					
	1110	1120	1130	1140	1150	1160
DEF4	-AGGTGTCACGCAATCATTGATGAGTCCTTGGCTGGAT--GACCTAGACAGTCATTAA ::: :::: : :: :::: : :: :::: : .. : :::: : :: :::: :					
DEFX	NAGGTCTCACCTAAAAATCTCAGGATTCTAGGCCAAANCGGTCTAAAAAATTGTTCA 1120 1130 1140 1150 1160 1170					
	1170	1180	1190	1200	1210	1220
DEF4	GGCTGAACTATCTAACGGCCAAGCAAAAAGGTGACTGTCCCCTCTAGGAA-CCACATGCT ::: :::: : :::: : :: :::: : :: :::: : :: :::: : :: :::: :					
DEFX	GTCT-GAACTCTAACGGTCAAGAGAAGAGGTGGTGGCTCCCTCTAACAGAAACACATGTT 1180 1190 1200 1210 1220					
	1230	1240	1250	1260	1270	
DEF4	ATATGCACATCCTTACTCGGGAGCCTGAAAC---CTGCCCTATCCAGCAACACAAGCC ::: :::: : :: :::: : :: :::: : :: :::: : :: :::: : :: :::: :					
DEFX	GCATGTACATCCTTAATTCCGGAAAGTCCAACAAACCTGCCCTGCTTAGCAACACAAGCC 1230 1240 1250 1260 1270 1280					
	1280	1290	1300	1310	1320	1330
DEF4	CAGGCG-TATTCAGTCTCATCCAGGTATTCTCCAAC---CTTAATTGTCTGAATGGCTTG ::: :::: : :: :::: : :: :::: : .. : :::: : :: :::: :					
DEFX	GAGGTGGTACTCC-TCTCACCGGGCATTCTCCAACACACCTGTTGTCCAAACAGCTTT 1290 1300 1310 1320 1330 1340					
	1340	1350	1360	1370	1380	1390
DEF4	GATTGTTTTATGGTTAGACCCCAGGG-CCTGGGAGGTCAAGTCAGACCACATTCCAAA ::: :::: : :: :::: : :: :::: : :: :::: : :: :::: : :: :::: :					
DEFX	GATTGTTTTATAGTTGGACCCCAGGTTCCAGGAGGCTGGTTCAAGGCCATTCCAAA 1350 1360 1370 1380 1390 1400					
	1400	1410	1420	1430	1440	1450
DEF4	TCCTCATCTGTGTGGTGGCATTGTGATCCTAGTCTCCTCGCAAGGTGTATAACACAA ::: :::: : :: :::: : :: :::: : :: :::: : :: :::: : :: :::: :					
DEFX	TCCTCATCTGTGTGTGAGTGGCATTCTAGCCTAGCCTCCTACAGGGTGGATACTATGA 1410 1420 1430 1440 1450 1460					
	1460	1470	1480	1490	1500	1510
DEF4	TATGCAGGCCAGGCTCTCGGTGGCTTTAAATATTCCCTCGGTCCAGGTAGTCAGCCT ::: :::: : :: :::: : :: :::: : :: :::: : :: :::: : :: :::: :					
DEFX	TACACAG-CCAGGCTGTCCCAGTGGCTTCAATATTCTTTGGTCCAGATAGTTCAGCCT 1470 1480 1490 1500 1510 1520					
	1520	1530	1540	1550	1560	1570
DEF4	CAGCCACCAGCATAGGTATCATGGGTCAATTGTCTAGGAGTCATGAGGAATCCACAGT ::: :::: : :: :::: : :: :::: : :: :::: : :: :::: : :: :::: :					
DEFX	CAGC-ACCAGTGTAGGCATCACAGGGTCAATTGTCTAGGAGTCATGGAGAATTCAAGT 1530 1540 1550 1560 1570 1580					

Figure 2 (continued)

	1580	1590	1600	1610	1620	1630	
DEF4	TGATTGCTGCCTGGCCTGGCCAGGGCTGACCAAAGTAGACGAGGGTCGGTACCTCCGT						
DEFX	:: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: :						
	TGGTAGCTACCTGGCCTGGCCAGGGCTGACCA--	- TAGACAAGGCATC---CCTCTGT					
	1590	1600	1610	1620	1630		
	1640	1650	1660	1670	1680	1690	
DEF4	GGACTCCTGCTTGAACCTCCAGCTTCTGCCAATTTCTCACTGCCCTGTTAACAGTTA						
DEFX	:: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: :						
	GAACTCCTATTTAATGCCAGCTTCCAACAAATTCTCAACTGCTCTTACCGAGGTA						
	1640	1650	1660	1670	1680	1690	
CAAT box							
	1700	----1710	1720	1730	1740	1750	
DEF4	TTTAAAGTACCCAATAGAAAGTAACGCTGAAAAATTAGGACACCTGATACCAAAAGACCC						
DEFX	:: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: :						
	GTTAAACTACTCAATAGAAAGTAACCTGAAAA-TTGGACACCTGTTCCAAAAGACCC						
	1700	1710	1720	1730	1740	1750	
TATA box							
	-----	1770	1780	1790	1800		
DEF4	TTAAATAAGG-AAGTCCCTC-CTCTGTGTGCATGGCTGCTCTG---CTACATAAGACC						
DEFX	:: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: :						
	TTAAATAGGGGAAGTCCCTTCNCTGCTTGTGCACAGCTGCTGATGTGGCAACATGAGGCC						
	1760	1770	1780	1790	1800	1810	
mRNA start -->							
	1810	1820	1830	1840	1850	1860	----
DEF4	TGGAACACAGGACTGCTGCTGCCCTCTGCTCGCCCTGCCCTAGCTTGAGGATCTGAA						
DEFX	:: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: :						
	TGGGACAGGGACTGCTCTGCCACTCTGGTAGCCTCACGTTAACATCTGTCA						
	1820	1830	1840	1850	1860	1870	
SpSite							
	--	1880	1890	1900	1910	1920	
DEF4	GTAACACAA----AACTTAAACTTTCACATTGAGGTTCAATATTGAAGCTGTCCCCC						
DEFX	:: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: : :: :						
	GTAATACAATACAAAACCTAAACTTTCATACTGCGGTTCCACCCAGGAAGCTGTCCCC						
	1880	1890	1900	1910	1920	1930	
1930 1940 1950 1960 1970 1980							
DEF4	AGTCTGACCTCTCACTGTGGGCCACCCCAGAGGACCCAGCGTGAAGCCCCCTGCTGTGAA						
DEFX	: :						
	AATCTGACCCGTGATTATGGGGCACCTCAGAGGNACCCAGTGAGGGAA-TATTTTG--						
	1940	1950	1960	1970	1980	1990	
1990 2000 2010 2020 2030 2040							
DEF4	CTTCTATCTGGGTGTCGGCGGCTGCTGGGGTAATGGCTACTAGCTAAGTCATAGAGA						
DEFX	: :						
	---CCATCTGGGA--CTGTTGGTTGCTGGGGCAGTGGCTATGAGCTCAGTTAATA---						
	2000	2010	2020	2030	2040		

Figure 2 (continued)

10045604801

	2050	2060	2070	2080	2090	2100
DEF4	AACTAAAAAGTTCCCTTCAAACACACAGTCCTACTTGACATGTCCAATAAGACGAT					
	2050	2060	2070	2080	2090	2100
DEFX	AACTCAAGCAGTTCCCTTCAAACACACATGTCTACTTAACGTGTCCAACAGAGATGAT					
	2110	2120	2130	2140		
DEF4	CA----CAGCTTCT--TAAAACATTA-TTTTATTGTGAGAGAACGCCTCT-----					
	2110	2120	2130	2140	2150	2160
DEFX	CATACTCATANGCTGCTAAAACATTANTTTATTTGAGAAAAGCTATTATGTTCTTG					
	2170	2180	2190	2200	2210	2220
			2150			
DEF4	-----GCAG-----GTC---CTA---					
	2170	2180	2190	2200	2210	2220
			2150			
DEF4	-----GGTCT-----GTTTTC-----					
	2230	2240	2250	2260	2270	2280
DEFX	TGCTCAAGCTGGCTCCAACCTCCTGGGCTCAAGCGATCTCCTACTTGGCCTTGAAAG					
	2230	2240	2250	2260	2270	2280
			2160			
DEF4	-----AATCAGGTT-----					
	2290	2300	2310	2320	2330	2340
DEFX	CGCTGAGATTGCCTGTGTGAGCCATCATGGGGCTCACTGGCCCCTGATTAATCAGATT					
	2290	2300	2310	2320	2330	2340
	2180	2190	2200	2210	2220	2230
DEF4	GTTTGTGCTATTGA-GTTGTTGACTTCCTATGTATTGAGATATTTACCCCTTC					
	2350	2360	2370	2380	2390	2400
DEFX	AATTGTTTGTCTATTGAANTTGTGACTTCCTTGATATTGGATATTTACCCATTG					
	2350	2360	2370	2380	2390	2400
	2240	2250	2260	2270	2280	2290
DEF4	TACCACTAGGCTTGCAAACATTTCCTCTCATTTCTGGTTGCCGTTCCCTCAGTTG					
	2410	2420	2430	2440	2450	2460
DEFX	TAACACGTAGGGTTGCAAATATTTCTCTCATGTTCTGTGTTGCCCTTCACTCAGTTG					
	2410	2420	2430	2440	2450	2460
	2300	2310	2320	2330	2340	2350
DEF4	ATTGTTCTTGCTATGAAGATGTTAGCGTTCAATGCAGCCCCGTTGTCTATTTC					
	2470	2480	2490	2500	2510	2520
DEFX	ATGGTTCTTGCTGTGCAGGTGCTTAGTGTCAACGCAGCCCCGTTGTCTATTTC					
	2470	2480	2490	2500	2510	2520
	2360	2370	2380	2390	2400	2410
DEF4	CCATTGTTATTGCCTGTGCCTTGGTGTATGCCAAGAAATCATTACTCACGTCAAT					
	2530	2540	2550	2560	2570	2580
DEFX	C-ATTT---TATTGCCTGTCCCTTGATGTCATAGCCAAGAAATAATTGCCAGATTAAT					

Figure 2 (continued)

TACGAGGGATTTATTACAGTGGAAATTCAAGGTCTGTTATGAG

	2420	2430	2440	2450	2460	2470
DEF4	GTCCAAA-GCTTTATCTTGATGTGCTTCAGGTCTTTCAA ::: :::: :::: :::: :::: :::: :::: :::					
DEFX	GTCAAAAAGCTTATCCCTATATACTCTAGTT-TATGGTTCAGATCTT 2590 2600 2610 2620 2630					
	2480	2490	2500	2510	2520	2530
DEF4	GTCTATGTTGAG-TCTTCATGCCATGTTGAGCTGATTTT-TACATGTTGAGAGAAAG ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::					
DEFX	---ATGTTAGGTCTTCATCCA--TTGAGTTGATTTGTATGTTAAGAAAAAA 2640 2650 2660 2670 2680 2690					
	2540					
DEF4	GACCACGTGTATGCACCT----- ::::: ::::: :::					
DEFX	GACCACATGTATACATATCTCAAATTCTAAGGTAGTATATATTAGACACATACAATGTT 2700 2710 2720 2730 2740 2750					
	2550	2560		2570		
DEF4	-----AGC---AACTCATGAAC-----CTTACA--CAACTCTTT ::: :: : :: :: :: :: :: :: :: :: :: :: :: :: :					
DEFX	CTATTTACACACATTGAGCTGAAAATAAAACATATTTTATCTTCATCAACTCTAT 2760 2770 2780 2790 2800 2810					
	2580	2590	2600	2610	2620	2630
DEF4	ATCTCTCACTGAGCTCATTCACCTGTACCGTATAAGTCATTGTCCTCTCACTCT ::: ::::: :: ::::: :: ::::: :: ::::: :: ::::: :: :					
DEFX	CTCTATCTCACTGAACTTGTTTCACCTATAGCCTGATGAGGTTGCTGTCCTCTACCCC 2820 2830 2840 2850 2860 2870					
	2640	2650	2660	2670	2680	2690
DEF4	GGCCCTACAGGAGACTACTCACCCATTACCTCAGTCGCCCTCATGAGGGT-ATAAT ::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::					
DEFX	AGCTCCTATAGGAGACTGCTCATCCCCCTAACCTCAAAAACCCCTCATGAGGGTGATAAT 2880 2890 2900 2910 2920 2930					
	2700	2710	2720	2730	2740	2750
DEF4	GACCTAGAAGCCTGCAATGAGTTACT-CTCTACTCCACCGGAATTCAAGGTCTGGCACAG ::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::					
DEFX	GCCCTTGAATCCTGCAATGAATTAGTTCTACTACAGTGGAAATTCAAGGTCTGTTATGAG 2940 2950 2960 2970 2980 2990					
	2760	2770	2780	2790	2800	2810
DEF4	TGTTTAGACCT--GAAGAGAATAGTAGGGCCATTATCAGGAAATAAGAGGCATTGCTC ::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::					
DEFX	GGTCTGGATCTCTGAAGAGAAGAG---CTCTCATTTCAAGAAAATAAGCAGGATTATTCA 3000 3010 3020 3030 3040					
	2820	2830	2840	2850	2860	2870
DEF4	TCTTAAATTATTGAATGAAAGCACTGTTCCATT-CTTTTGAATATTAAAGATTAAAC ::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::					
DEFX	CCTGAAATTACTGAATTAAATCACTGTTGATTACTTTTGCAATATTAAA----- 3050 3060 3070 3080 3090					

Figure 2 (continued)

----- exon2 -----

DEF4	2880	2890	2900	2910	2920	2930
	CAGGAAATATTAGGTATTCCTGAAAACAGGAAAAAATGCCAGGGCCTCATCATCACCA					
DEFX	3100	3110	3120	3130	3140	3150
	-AGTAAATATTTAACAGGTAAAAACAG-AATAATGGTAGGGCCTTATCATCACCG					
DEF4	2940	2950	2960	2970	2980	
	TCAACTCAACCTAGGCACAGACACTAAACATAGAGCTTC-CTGTGAAGAAAGCTGGG					
DEFX	3160	3170	3180	3190	3200	3210
	TGAATTCCAAGCTAG-CATAGACACTAAACCTAGAGATTACACTAGAATGAAAGCTGGG					
DEF4	2990	3000	3010	3020	3030	3040
	AGAGCAGAGGAGGCATTCCAGGGATGTCAAGGCCAATAGGAGTCGGCATCCTCTAAACA					
DEFX	3220	3230	3240	3250	3260	3270
	AGAGCAGAGGAGTC-TCAGAAGGATGTGGAGGCCAATGGACACCTGCAACCTCTCCAACG					
DEF4	3050	3060	3070	3080	3090	3100
	AAATGCACACCTCCTCTCACTCAGAAGGCCAAGGTTTCTTATCTCTGTGCCTCTCCCA					
DEFX	3280	3290	3300	3310	3320	
	AAATGCCTACCTCCTCTCACT-----GC---AGCATCC-ATCTCTGAGCCTCTCGCA					
DEF4	3110	3120	3130	3140	3150	3160
	GAA-AGCTATAAATCCAAGCTGGCTTCTCCCTCCCCACACAGCTGCTCCTGCTCTCCCTC					
DEFX	3330	3340	3350	3360	3370	3380
	GCAGAGCTATAAATTCAGCCTGGCTCCTCGTTCCACACATCCACTCCTGCTCTCCCTC					
DEF4	3170	3180	3190	3200	3210	3220
	CTC----CAGGTACCCCCAGCCATGAGGATTATGCCCTCCTCGCTGCTATTCTCTTGG					
DEFX	3390	3400	3410	3420	3430	3440
	CTCTCCTCCAGGTGACTACAGTTATGAGGACCCCTACCCCTCTTGCTTTCTCCTGG					
DEF4	3230	3240	3250	3260	3270	3280
	TAGCCCTCCAGGTCCGGGCAGGCCACTCCAGGCAAGAGGTGATGAGGCTCCAGGCCAGG					
DEFX	3450	3460	3470	3480	3490	3500
	TGGCCCTTCAGGCCCTGGGCAGAGCCGCTCCAGGCAAGAGCTCATGAGATGCCAGCCCAGA					
DEF4	3290	3300	3310	3320	3330	3340
	AGCAGCGTGGGCCAGAAGACCAGGACATATCTATTTCCTTGCATGGATAAAAGCTCTG					
DEFX	3510	3520	3530	3540	3550	3560
	AGCAGCCTCCAGCAGATGACCAGGATGTGGTCATTTACTTTCAAGGAGATGACAGCTGCT					

Figure 2 (continued)

----->

	3350	3360	3370	3380	3390	3400
DEF4	CTCTTCAGGTTTCAGGTGAGAGAGGCCAGCATAAAAAGCTACCGAGTCTAGAGAGACGG					
	3570	3580	3590	3600	3610	
DEFX	CTCTTCAGGTTCCAGGTGAGAGATGCAGCATGCAGA-GCTAC--AGACTAGACAGAAGG					
	3410	3420	3430	3440	3450	3460
DEF4	ATGGGAGATGGGCTCTGGAATCACATCTCAATGGGGATGTCACCTAGGTGGCTTACTT					
	3620	3630	3640	3650	3660	3670
DEFX	ACAGGAGACAGGCTCTGGAATTGGATCTCAGTGGCAGATGTCACCTAGGTGGCTATACTT					
	3470	3480	3490	3500	3510	3520
DEF4	ACCATCTCTGGGCTCGATTCTTCTCGAAACTGAATAGAGAGACAAACAAATGTAAC					
	3680	3690	3700	3710	3720	3730
DEFX	AACATCTCTGGTCTGGATTCTCATATCTAAATGAAATAGAGAACCAAAGAAATCTAA					
	3530	3540	3550	3560	3570	3580
DEF4	GT-AGTCTCTTCTCCAAAAGACTTGATCCAAGGTATGCTATAAAATCGCTAGGGTT					
	3740	3750	3760	3770	3780	3790
DEFX	GAGATTTCTTCTCCAAAAGACTTGATCCAAGATATGACTGTGAAATTCACTAGATTT					
	3590	3600	3610	3620	3630	
DEF4	AAGATATGGAGAGACAGATTGACCAGTCTTCTGGATCTAAACAAGTA-GAT--ATTAT					
	3800	3810	3820	3830	3840	3850
DEFX	AAGATATAAGGAGATG--CTACCTAGTCTCTGGAGCCAGACAAACAAAGCTTAAGTAT					
	3640	3650	3660	3670	3680	3690
DEF4	AG-GGAAAATATTCATTCTGCCAACAAAGGAATTAAAACTGGAGATGGCTTAAG					
	3860	3870	3880	3890	3900	3910
DEFX	ATAGGAAAATATTCACCCTGTCTATATAGGAGGTTTAGAACCTGGAGAGGAGCTAAG					
	3700	3710	3720	3730	3740	3750
DEF4	AGTATGTCAGGTGTGTCTGATGGGCA--AAAGCACACAAATCAGAGAAAAGAGAA					
	3920	3930	3940	3950	3960	3970
DEFX	AATGTGTCAGGTGTGTGTGATGGG-CAGGAATGCAGAAAAGTGA-AGCAAAGGAGAA					
	3760	3770	3780	3790	3800	3810
DEF4	TGAGTCTCAAATCCTGTATGAGCAGCATTGCTCTGTGTATTCTATTGACTAAGGT					
	3980	3990	4000	4010	4020	4030
DEFX	TGAGTCTCGAACCTGTGTGACCAGCAGCTGCTCTGTGTATTCTATTGACTGAGAT					
	3820	3830	3840	3850	3860	3870
DEF4	TGTTTGTGCTACCGGCACAAATGCAGCCAGCATCACCGGTACGCCAGCATGTGCATTCTC					
	4040	4050	4060	4070	4080	4090
DEFX	TGTTTGTGCTACCGGCTGTAATACAGCCAACATCACTCATCAGCCAACATGTGACTTCTC					

Figure 2 (continued)

TOPSIDE - DECODED

	3880	3890	3900	3910	3920	3930
DEF4	CAAGATTCCCTTACCAACCCACCGCTGACCTTGGTGCTTAATTCTCAGTCCTCCTCTGT ::: :::::					
DEFX	CAAGATTCCCTTACCAACCCACTGCTGNACCCCGTACTCAGTTCTGATGCTCTCTGG 4100 4110 4120 4130 4140 4150					
	----- exon3 -----					
	3940	3950	3960	3970	3980	3990
DEF4	GTTCCCAGGCTCAACAAGGGGCATGGTCTGCTCTTGAGATTAGTATTCTGCCGGCGAAC ::: :::::					
DEFX	GTCCCCAGGCTCAACAAAGGGCTTGATCTGCCATTGAGACTATACTGCATTTGG 4160 4170 4180 4190 4200 4210					
	----- exon3 -----					
	4000	4010	4020	4030	4040	4050
DEF4	AGAACTTCGTGTTGGGAAC TGCTCATTGGTGGTGTGAGTTCACATACTGCTGCACGCG ::: :::::					
DEFX	AGAACATCTTGGTGGGACCTGCTCATCCTGGTGAACGCTACCCAACTGCTGCT--- 4220 4230 4240 4250 4260 4270					
	----- exon3 -----					
	4060	4070	4080	4090	4100	4110
DEF4	TGTGATTAACATTCTGCTGTCAGAGAATGTCATGCTGGAACGCCATCATCGGTGGT ::: :::					
DEFX	-----ACTAA-----					
	----- exon3 -----					
	4120	4130	4140	4150	4160	4170
DEF4	GTTAGCTTCACATGCTTCTGCAGCTGAGCTTGAGAATAGAGAAAAATGAGCTCATAATT ::: :::::					
DEFX	-----GCTTGAGACTAGAGAAAAA-GAGTTCATAATT 4280 4290 4300					
	----- exon3 -----					
	4180	4190	4200	4210	4220	4230
DEF4	TGCTTGAGAGCTACAGGAAATGGTTGTTCTCCTATACTTTGTCCTAACATCTT-TCT ::: :::::					
DEFX	-----TTCTTGAGCATTAAAGGGATTGTTATT---CTTACACCTGTCCTCGATTTCCTGTCC 4310 4320 4330 4340 4350 4360					
	Poly Ad					
	>					
	4240	4250	4260	4270	4280	4290
DEF4	TGATCCTAAATATATCTCGTAACAAGATGTCTTGTGTTACACCTTTGAAATTGAT ::: :::::					
DEFX	-----TCATCCCAAATAAAACTTGGTAACATGATTCCGGGTTTTTTTTTT 4370 4380 4390 4400 4410					

Figure 2 (continued)

10055460-104804

	10	20	30	40	50	60
DEF4	GTCTGCCCTCTGCTGCCCTGCCTAGCTTGAGGATCTGTCACCCAGCCATGAGGATT					
DEFX	::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::					
	10	20	30	40	50	60
DEF4	CTCTGCCCACTCTGGTAGCCTCACGTAGCTAACAACTGTGACTACAGTTATGAGGACC					
DEFX						
	70	80	90	100	110	120
DEF4	ATCGCCCTCCTCGCTATTCTCTTGGTAGCCCTCCAGGTCCCCGGCAGGCCACTCCAG					
DEFX	::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::					
	70	80	90	100	110	120
DEF4	CTCACCCCTCCTCTGCCCTTCCTGGTGGCCCTCAGGCCCTGGCAGAGCCGCTCCAG					
DEFX						
	130	140	150	160	170	180
DEF4	GCAAGAGGTGATGAGGCTCCAGGCCAGGAGCAGCGTGGGCCAGAACAGACCATATCT					
DEFX	::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::					
	130	140	150	160	170	180
DEF4	GCAAGAGCTCATGAGATGCCAGCCCAGAACAGCAGCCTCCAGCAGATGACCAGGATGTGGTC					
DEFX						
	190	200	210	220	230	240
DEF4	ATTCCTTGCATGGATAAAAGCTCTGCTCTCAGGTTTCAGGCTCAACAAGGGCATG					
DEFX	::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::					
	190	200	210	220	230	240
DEF4	ATTTACTTTCAAGGAGATGACAGCTGCTCTCAGGTTCCAGGCTCAACAAAGGGTTG					
DEFX						
	250	260	270	280	290	300
DEF4	GTCTGCTCTGCAGATTAGTATTCTGCCGGCGAACAGAACTTCGTGTTGGAACTGCCTC					
DEFX	::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::					
	250	260	270	280	290	300
DEF4	ATCTGCCATTGCAGAGTACTATACTGCATTTGGAGAACATCTGGTGGACCTGCTTC					
DEFX						
	310	320	330	340	350	360
DEF4	ATTGGTGGTGTGAGTTCACATACTGCTGCACCGTGTGATTAACTGTTCTGTC					
DEFX	::: ::::: ::::: ::::: ::::: :::::					
	310	320	330	340	350	360
DEF4	ATCCTTGGTGAACGCTACCAAATCTGCTG-----CTACTAA-----					
DEFX						
	370	380	390	400	410	420
DEF4	GAGAATGTCATGCTGGAACGCCATCATCGGTGGTTAGCTTACATGCTCTGCAGCT					
DEFX	-----					
	360	370	380			390
DEF4	430 440 450 460 470 480					
DEFX	GAGCTTGCAGAATAGAGAAAAATGAGCTCATATTGCTTTGAGAGCTACAGGAAATGGT					
	400	410	420	430	440	450
DEF4	--GCTTGCAGACTAGAGAAAAA-GAGTTCATAATTCTTTGAGCATTAAAGGGAAT---					
DEFX						
	490	500	510	520	530	
DEF4	TGTTTCTCCTATACTTTGTCCTTAACATTT-TCTTGATCCTAAATATATCTCGTAAC					
DEFX	::: ::::: ::::: ::::: ::::: ::::: ::::: ::::: :::::					
	460	470	480	490	500	510
DEF4	TGTTATTCTTATAACCTTGTCCCTCGATTCTCTCATCCCAATAAATCTGGTAAC					
DEFX						
	540					
DEF4	AAG					
DEFX	:::					
	ATG					

Figure 3

<----- Signal peptide ----->--
 5 10 15 20
 MetArgThrLeuThr LeuLeuSerAlaPhe LeuLeuValAlaLeu GlnAlaTrpAlaGlu

----- Propiece -----
 25 30 35 40
 ProLeuGlnAlaArg AlaHisGluMetPro AlaGlnLysGlnPro ProAlaAspAspGln

----- Propiece -----
 45 50 55 60
 AspValValIleTyr PheSerGlyAspAsp SerCysSerLeuGln ValProGlySerThr

-----><----- Mature peptide -----<
 65 70 75 80
 LysGlyLeuIleCys HisCysArgValLeu TyrCysIlePheGly GluHisLeuGlyGly

----->----- Mature peptide ----->
 85 90 94
 ThrCysPheIleLeu GlyGluArgTyrPro IleCysCysTyr

Figure 4

	SIGNAL	PROPIECE
DEF4_HUMAN	MRIIALLAAILLVALQVRA	GPLQAR-----GDEAPGQ-EQRGPEDQDISISFAWDKSS
DEF5_HUMAN	MRTIAILAAAILLVALQQA	ESLQER-----ADEATTQ-KQSGEDNQDLAISFAGNGLS
DEF6_HUMAN	MRTLTIITAVLLVALQAKA	EPLQAEDDPLQAKAYEADAQ-EQRGANDQDFAVSFAEDASS
DEF1_HUMAN	MRTLAILAAAILLVALQQA	EPLQAR-----ADEVAAPEQIAADIPEVVVS LAWDES
DEFX	MRTLTLSSAFLLVALQAWA	EPLQAR-----AHEMPAQ-KQPPADDQDVVIYFSGDDSC
	*** ... * ***** *	*** * *

	PROPIECE	Mature PEPTIDE
DEF4_HUMAN	ALQVSGSTRGM	VCSCRLVFCRRTELVRGNCLIGGVSFYCCTRVD
DEF5_HUMAN	ALRTSGSQARA	TCCYCRTGRCATRESLSGVCEISGRLYRLCCR---
DEF6_HUMAN	SLRALGSTRAF	TCHCRR-SCYSTEYSYGTCTVMGINHRFCCL--
DEF1_HUMAN	APKHPGSRKNM	ACYCRIPACIAGERRYGTCIYQGRLWAFCC---
DEFX	SLQVPGSTKGL	ICHCRVLYCIFGEHGGTCFILGERYPICCY---
	***	*** * * * * * **
		^ ^ ^ ^ ^ ^ ^ ^

Figure 5